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1. A filter cartridge for filtering a slurry composition which comprises a hollow housing having a first end including an inlet and a second end including an outlet, said hollow housing being filled with a depth filter and being free of an open void volume upstream of said depth filter.
  2. The filter cartridge of Claim 1 wherein said depth filter is formed of segments separated by annular spacers.
  3. The filter cartridge of Claim 2 wherein said depth filter segments comprise a wound depth filter comprising nonwoven fibers.
  4. The filter cartridge of Claim 2 wherein said depth filter segments comprise a stack of sheets wherein each sheet comprises nonwoven fibers.
  5. The filter cartridge of Claim 2 wherein said depth filter segments comprise a fibrous mass of nonwoven polymeric fibers secured together by mechanical entanglement of the fibers.
  6. The filter cartridge of anyone of claims 2, 3, 4 or 5 wherein the ratio of depth filter segment thickness to spacer thickness is from about 1.1:1 to about 5:1.
  7. The filter cartridge of Claim 6 wherein the ratio of depth filter segment thickness to spacer thickness is from about 1.5 to about 3:1.
  8. The filter cartridge of any one of Claims 1, 2, 3, 4 or 5 wherein the housing is free of an open void volume downstream of said depth filter.
  9. The filter cartridge of any one of Claims 1, 2, 3, 4 or 5 wherein the depth filter inserted into the housing is precompressed into its final length.
  10. The filter cartridge of any one of Claims 1, 2, 3, 4 or 5 wherein further comprising end caps secured to the ends of the by a mechanical device.
  11. The filter cartridge of Claim 10 wherein the inner walls of the housing adjacent the ends of the housing have one or more slots formed therein, the end caps contain one or more C-rings and the C-rings secure the end caps to the housing by fitting at least partially into the one or more slots of the housing.
  12. The filter cartridge of Claim 10 wherein the outer walls of the housing adjacent the ends of the housing have a flange formed thereon and the end caps are secured to the flange by a C-ring.

13. The filter cartridge of any one of claims 11 or 12 wherein the end caps are formed of two or more pieces known as the inner end cap piece and outer end cap piece and at least the inner end cap piece is secured by said to said housing.

14. The filter cartridge of Claim 13 wherein the outer end cap is secured to the inner cap piece.

15. The filter cartridge of any one of claims 1, 2, 3, 4 or 5 wherein the media has a surface treatment selected from the group consisting of hydrophobicity, hydrophilicity or a positive or negative charge.

16. A process for filtering a slurry which comprises  
passing a slurry through a filter cartridge as defined in any one of Claims 1, 2, 3, 4, 5, 7, 11, 12 or 13, and  
recovering a filtered slurry from said cartridge.

17. The process of Claim 16 wherein said slurry is selected from the group consisting of a silica-based slurry, and alumina-based slurry, a ceria-based slurry, a diamond-based slurry, a  $\text{MnO}_2$ -based slurry